

SUBODH PUBLIC SCHOOL, AIRPORT

SESSION 2020-21



INFORMATICS PRACTICES

PROJECT REPORT ON

“Abyss-Library Management System”

SUBMITTED TO

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SUBMITTED BY

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12B



SUBODH PUBLIC SCHOOL, AIRPORT

CERTIFICATE

This is to certify that Jhanvi Mahawar of CLASS 12-B has successfully completed the project Work entitled "Abyss-Libre" in the subject Informatics Practices (065) laid down in the regulations of CBSE for the purpose of AISSCE examination 2021 of Class XII carried out in supervision and guidance. This report or a similar report on this topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

External Examiner:

Name:

Signature:

Internal Examiner

Name: Ms. Nidhi Mishra

Signature:

Date:

ACKNOWLEDGEMENT

I undertook this project work as a part of my Informatics Practices (065) course. I had tried to apply my best of knowledge and experience gained during the study and class work experience. However, developing software system is generally being quite complex and time-consuming process. It requires a systematic study, insight vision and professional approach during the design and development. Moreover, the developer always feels the need, the help and good wishes of people near you who have considerable experience and idea. I would like to extend my sincere thanks to and gratitude to my teacher Ms. Nidhi Mishra. I am very much thankful to our school principal Ms. Kamaljeet Yadav for giving valuable time and support to develop this software.

Jhanvi Mahawar

12 B

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Library Management System

INTRODUCTION

Library management system is all about organizing, managing the library and library-oriented tasks. It also involves maintaining the database of entering new books and the record of books that have been retrieved or issued, with their respective dates.

The main aim of this project is to provide an easy to handle and automated library management system with features and interface for maintaining staff's records, customer's history of issue and books rating analysis. This a user friendly application for user and admin

OBJECTIVES OF THE PROJECT

Library Management System is a term for computer-based system that manage the catalogue of a library. The main purpose of this system is to manage library daily operation efficiently.

- a) To build a system that can receive input and generate automatically output in easy way and short time.
- b) To build a monitoring system that is able to monitor and manage all library operations efficiently.
- c) Give an opportunity to librarians to reduce mistakes that always happen during manual method.
- d) To store properly the library items in order to maintain their security.
- e) To be user friendly for readers so that they can perform various activities like searching books, updating their details and issuing books online.
- f) To have data visualization of Books rating via line chart, bar chart and histogram

HARDWARE AND SOFTWARE REQUIREMENTS

I. OPERATING SYSTEM : Windows 10

II. PROCESSOR : Intel(R) Core(TM) i5-4310U CPU @2.00GHZ 2.60GHz

III. RAM : 4.00GB

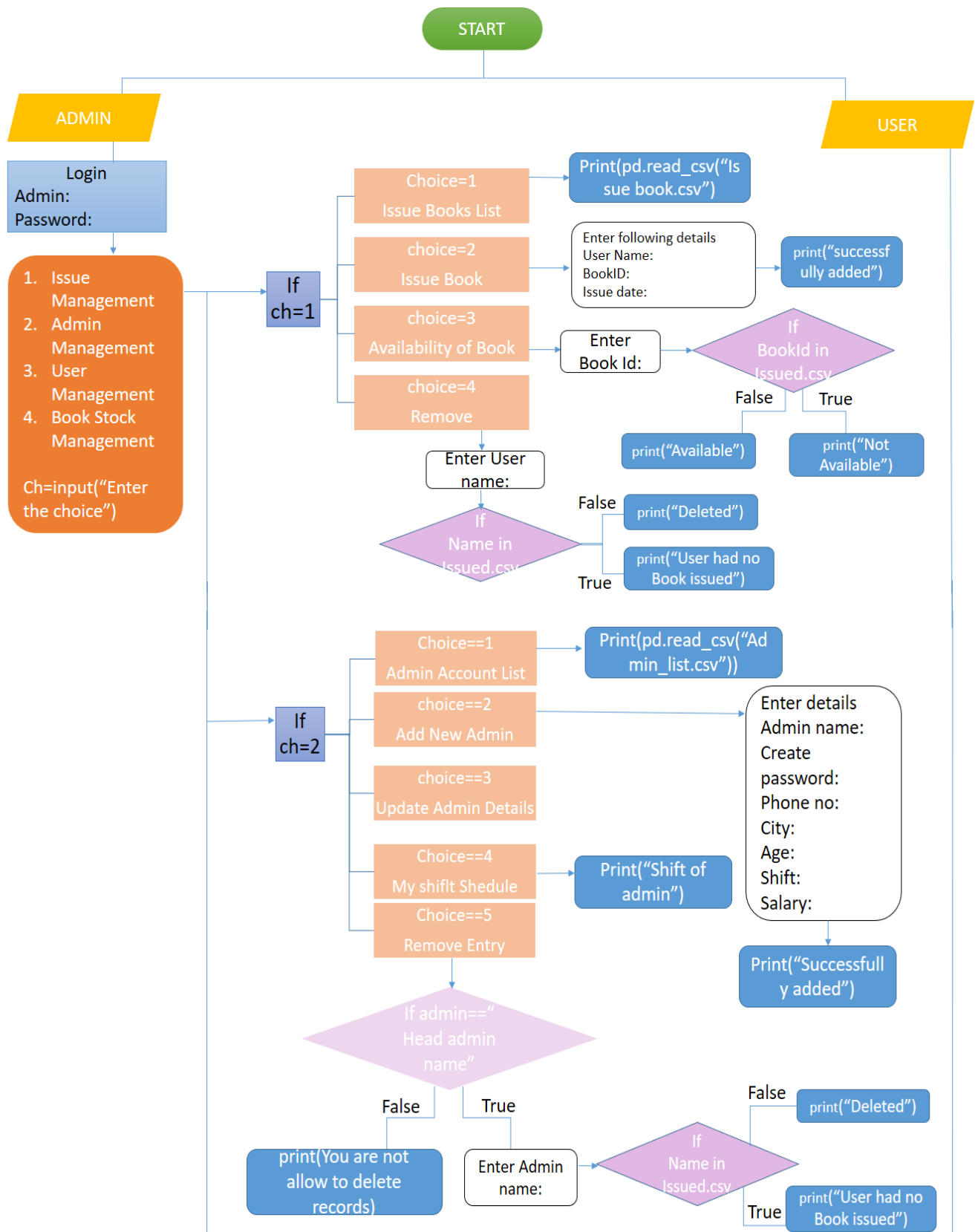
IV. MONITOR

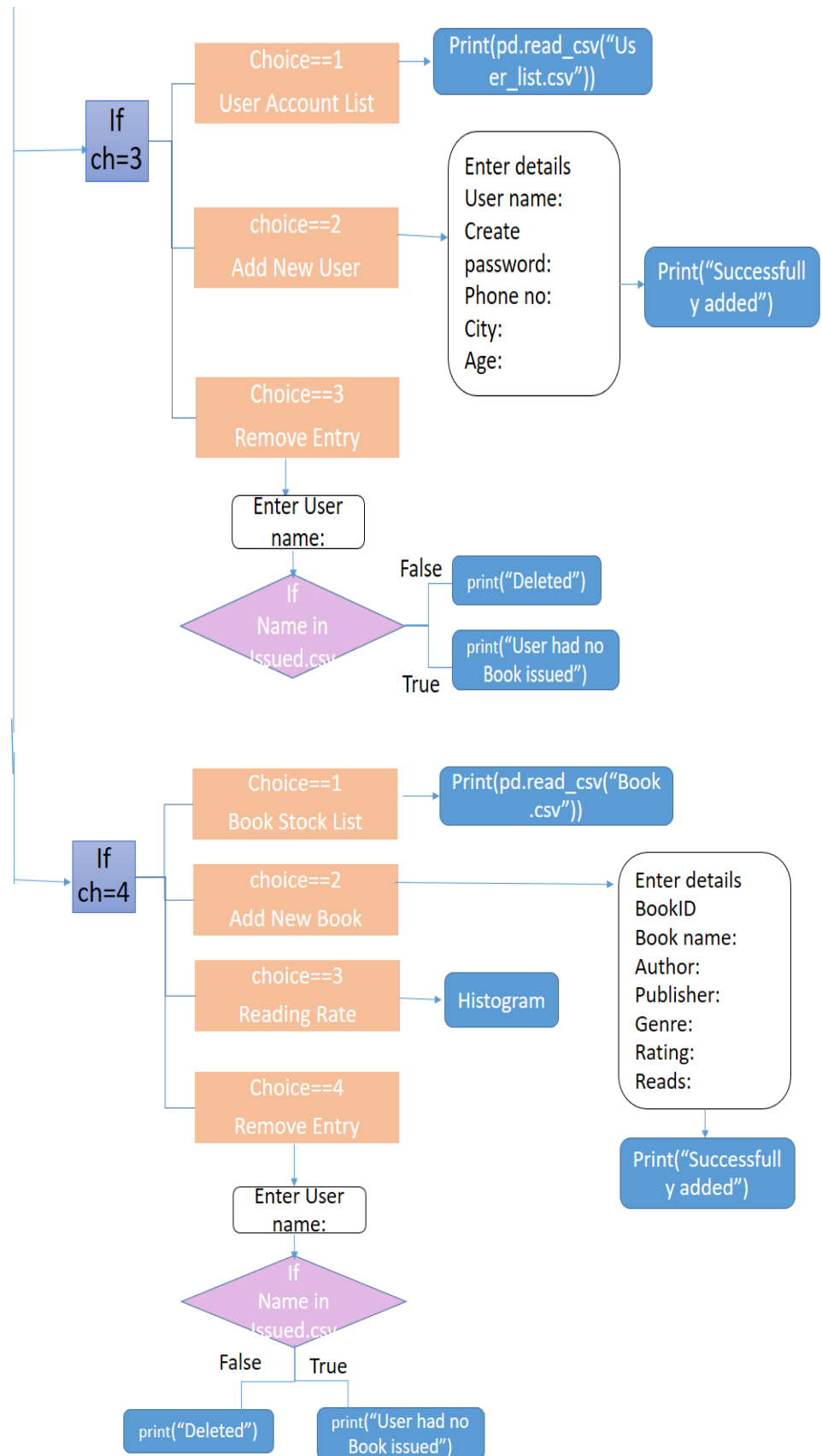
V. KEY BOARD AND MOUSE

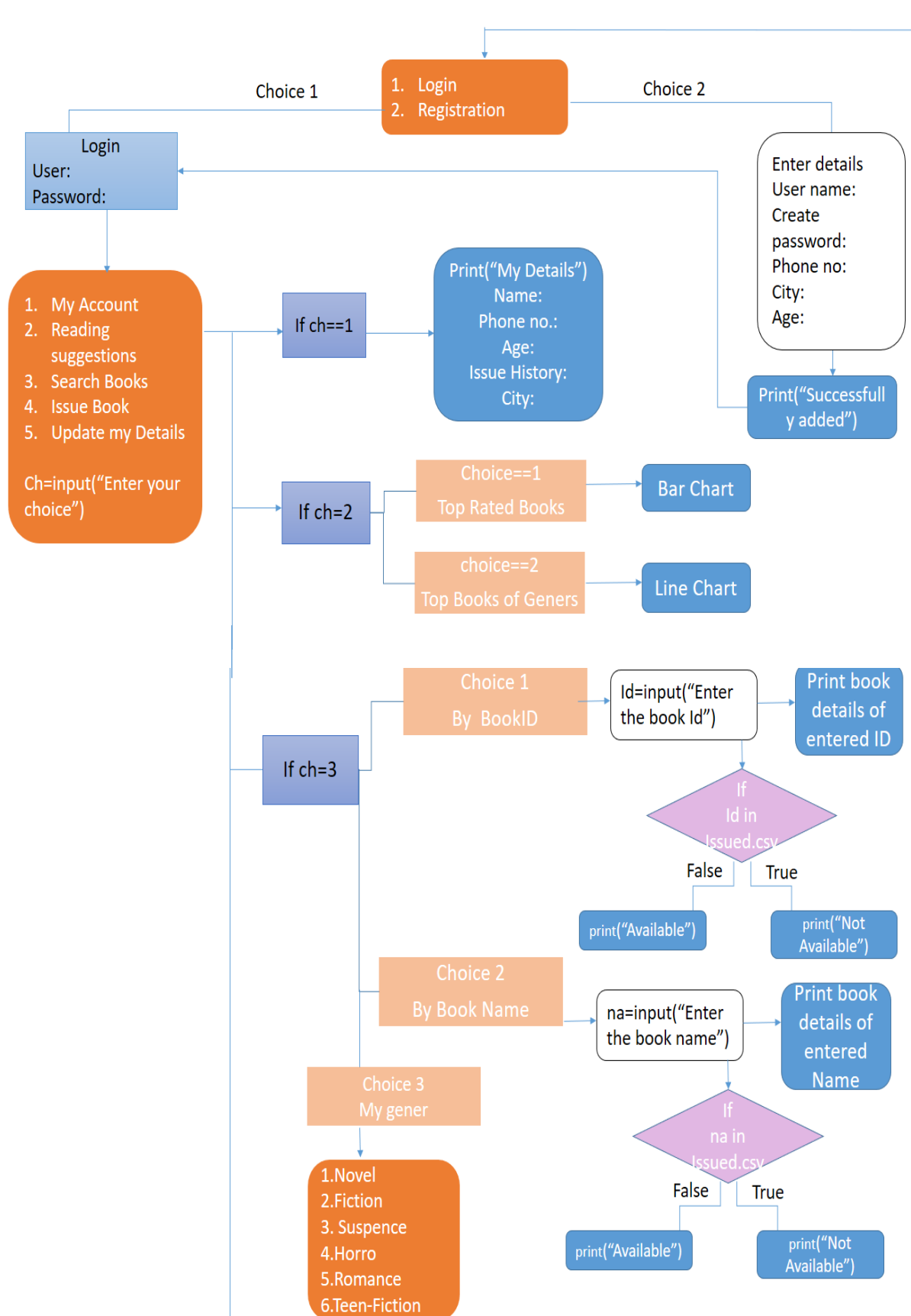
SOFTWARE REQUIREMENTS:

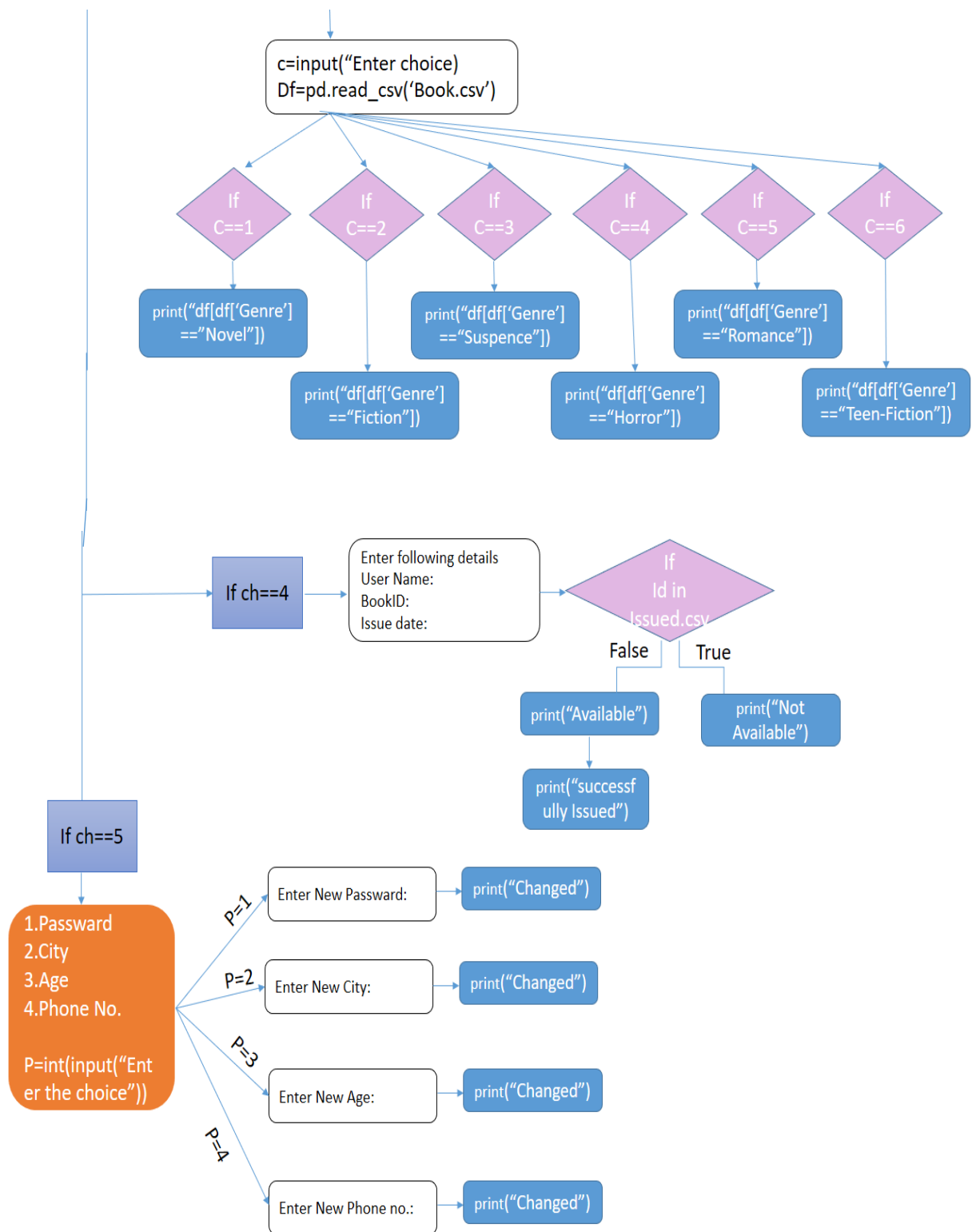
- Windows OS
- Python

FLOW CHART









File View

Python file name used:-

◆ Library Project_cod.py

CSV File used:-

=>admin_list.csv

| Admin | Phone no. | Password | City | Age | Shift | Salary |
|---------|------------|----------|----------|-----|--------------|--------|
| Allina | 48328383 | Hel30 | Jaipur | 23 | 7a.m.-10p.m. | 10000 |
| Kelash | 543267893 | kelu#4 | Tonk | 25 | 12p.m.-2p.m. | 10000 |
| Akahi | 647532198 | Akashi45 | Raipur | 26 | 1p.m.-3p.m. | 10000 |
| Girish | 213456789 | giri30 | Jaipur | 28 | 4p.m.-6p.m. | 10000 |
| Mohit | 765342189 | 63m#h | Jaipur | 29 | 6a.m.-9p.m. | 12000 |
| Lina | 321456789 | Lina123 | Churu | 30 | 2p.m.-5p.m. | 12000 |
| Himashi | 987653421 | hima%13 | Jaipur | 25 | 6p.m.-8p.m. | 10000 |
| Gagan | 54321879 | 234ga | Tonk | 27 | 8p.m.-10p.m. | 10000 |
| heera | 987654321 | hir2 | Ganganag | 24 | 2p.m.-3p.m. | 10000 |
| jina | 8765432129 | jawbreak | Jaipur | 22 | 9a.m.-10p.m. | 10000 |
| Jeera | 7654321298 | jemi | Kanpur | 24 | 3p.m.-6p.m. | 10000 |
| Reena | 978563421 | ri@73 | Tonk | 32 | 5p.m.-7p.m. | 10000 |
| Kiara | 576438921 | fre43 | Jaipur | 31 | 3p.m.-4p.m. | 12000 |
| Jane | 56743993 | jae | Jaipur | 28 | 7a.m.-9a.m. | 10000 |
| Kai | 9888765433 | k@3i | Nivai | 25 | 9p.m.-12p.m. | 10000 |
| Jimin | 9687453234 | chimchim | Tonk | 25 | 12p.m.-2p.m. | 10000 |
| Jeena | 9878767654 | j33 | Dosa | 23 | 4p.m.-5p.m. | 2100 |
| Jhanvi | 9413349552 | jh@n | Jaipur | 27 | 10a.m.-8p.m. | 14000 |
| Giresh | 9876691223 | gtr! | Jaipur | 28 | 8a.m.-11a.m. | 12000 |

=> User_list.csv

| User | Phone no. | Password | City | Issued His Age |
|---------|------------|-----------|----------|----------------|
| Manisha | 987563210 | Mani36 | Jaipur | BK1, BK2, 33 |
| Akhil | 988657342 | ank11 | Churu | BK2, BK6 22 |
| Ramesh | 955678432 | ramu#95 | Tonk | BK10 32 |
| Mira | 658749320 | mulaun\$2 | Jaipur | BK6, BK10 22 |
| Kamla | 8876453324 | J19a | Delhi | BK5, BK8, B 29 |
| Babu | 9876576587 | b@b4 | Jaipur | 3, BK7, BK1 23 |
| Farah | 9876875564 | rije2 | Delhi | BK13, BK5 24 |
| Anshi | 8893457766 | a@ns! | Tonk | BK6, BK9, B 25 |
| Rinna | 5566778444 | rle@ | Tonk | BK1 28 |
| Sahil | 9877066954 | s@hil | Ahemdab | BK10, BK8 22 |
| Sarah | 7658760987 | s@rr# | Jaipur | BK2, BK6, f 19 |
| Kamal | 9988776645 | K@m | Ganganag | BK5, BK9 19 |
| Jhanvi | 9857633495 | jh@n | Jaipur | BK9 22 |
| Rajat | 7856630443 | r@gt | Tonk | 34 |
| Harshi | 7864556533 | h@rh! | Delhi | 17 |
| Fool | 7869434523 | f3l0 | Seoul | 17 |

=>Book.csv

| BookID | Book Name | Author | Publisher | Genre | Rating | No. Of Reads |
|--------|-------------|--------------|-------------|---------|--------|--------------|
| BK1 | The Time | H.G. Wells | William H | Fiction | 6.7 | 148 |
| BK3 | The Handi | Margaret | McClellan | Fiction | 7.8 | 234 |
| BK3 | Brave Nev | Aldous Hi | Chatto & | Fiction | 4.6 | 293 |
| BK4 | The Hobbi | J. R. R. Tol | George Al | Fiction | 2.8 | 154 |
| BK5 | Animal Fa | George Or | Orwell's | Fiction | 8 | 234 |
| BK6 | To Kill a | M Harper Le | J.B. Lippin | Horror | 9.7 | 193 |
| BK7 | The Killing | Lucy Chris | Chicken | Horror | 7.4 | 233 |
| BK8 | Dracula | Bram Stok | Archibald | Horror | 5.8 | 190 |
| BK9 | House of | l Mark Z. D | Random H | Horror | 8.7 | 293 |
| BK10 | The Haunt | Shirley Jac | Viking | Horror | 9 | 154 |
| BK11 | The Histor | Henry Fie | Andrew A | Novel | 5.7 | 200 |
| BK12 | THE POWE | JOSEPH M | Elite | Novel | 9.1 | 232 |
| BK13 | Madame E | Gustave F | Michel L | Novel | 6.7 | 112 |
| BK14 | Frankenst | Mary Shel | Frankenst | Novel | 4.1 | 12 |
| BK15 | Pride and | Jane | Whitehall | Novel | 7.8 | 200 |
| BK16 | Jane Eyre | Eyre | Smith Eld | Romance | 4.4 | 122 |
| BK17 | Outlander | Diana Gab | Diana | Romance | 9.3 | 65 |
| BK18 | The Duke | A Julia Qu | Quinn co. | Romance | 9.2 | 192 |
| BK19 | White ani | Casey Mc | McClellan | Romance | 9.5 | 222 |
| BK20 | The Vicer | Julia Quin | Quinn co. | Romance | 9.6 | 143 |

=>Issued.csv

| User | BookID | D_o_Issue | D_o_Return |
|--------|--------|------------|----------------|
| Deepak | BK32 | 12/27/2020 | 1/6/2021 0:00 |
| Ellina | BK22 | 12/27/2020 | 1/6/2021 0:00 |
| Farah | BK12 | 12/29/2020 | 1/8/2021 0:00 |
| Harman | BK11 | 12/22/2020 | 1/1/2021 0:00 |
| Veeta | BK13 | 12/22/2020 | 1/1/2021 0:00 |
| Dhruv | BK1 | 12/22/2020 | 1/1/2021 0:00 |
| Shreya | BK4 | 12/24/2020 | 1/3/2021 0:00 |
| Rajat | BK7 | 1/1/2021 | 1/11/2021 0:00 |
| Sara | BK2 | 12/29/2020 | 1/8/2021 0:00 |
| Gaurav | BK5 | 12/30/2020 | 1/9/2021 0:00 |
| Jhanvi | BK34 | 12/31/2020 | 1/10/2021 0:00 |
| Harish | BK8 | 12/31/2020 | 1/10/2021 0:00 |
| Akhil | BK3 | 1/2/2021 | 1/12/2021 0:00 |

SOURCE CODE

```
import pandas as pd
import numpy as np
import csv
import matplotlib.pyplot as plt
import datetime
from datetime import date
from datetime import timedelta

print("      |*****|")
print("=:-----:{| WELCOME TO ABYSS LIBRARY|=:-----:=")
print("      |*****|")
m=1
while(m==1):
    print("      |:-----:|")
    print("      |: 1.ADMIN  :|")
    print("      |: 2.USER   :|")
    print("      |:-----:|")
    a=int(input("      Enter your choice:"))
    if(a==1):
        print("_____")
        ad=input("Enter the ADMIN name:")
        pwd=input("Enter the Password:")
        df=pd.read_csv("admin_list.csv")
        df1=df[(df['Admin']==ad) & (df['Password']==pwd)]
        if(df1.empty):
            print("=X= TRY AGAIN =X=")
            m=1
        else:
            q=1
            print("-----| | WELCOME ",ad," | |-----")
            while (q==1):
                print("_____")
```

```
print("<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< ")
print("1.Book Issue Management")
print("2.Admins Management")
print("3.Users Management")
print("4.Books Management")
print("5.===BACK===")
b=int(input("Enter your choice: "))
if(b==1):
    w=1
    while(w==1):
        print("_____")
        print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
        print("1. Book Issued list")
        print("2. Issue Book")
        print("3. Availablity of Book")
        print("4. Remove Entry")
        print("5. ==BACK==")
        c=int(input("Enter your choice: "))
        if(c==1):
            df2=pd.read_csv('Issued.csv')
            print("_____")
            print(df2)
            q=0
            w=1
        elif(c==2):
            print("_____")
            i=int(input("Enter the no. of entries:"))
            for s in range(i):
                print("_____")
                print("Entry",s+1)
                na=input("Enter User Name:")
                bd=input("Enter BookID(One Book at a time):")
```


else:

```
print(" ")
print("--SORRY THIS BOOK IS Currently ISSUED--")
print(" ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^")
print("It will be available after:", (df3['D_o_Return'].to_string(index=False)))
q=0
w=1
```

elif(c==6):

```
print(" ")
nam=input("Enter User Name: ")
df2=pd.read_csv('Issued.csv')
df3=df2[df2['User']==nam]
if(df3.empty):
    print("-- No Book Issued under", nam, " --")
    q=0
    w=1
```

else:

```
print("Issue Date:", df3["D_o_Issue"].to_string(index=False))
print("Returning Date: ", df3["D_o_Return"].to_string(index=False))
re=input("Enter Returned date(mm/dd/yyYy):")
dd=input("No.Of Delay Days: ")
fe= dd*10
df4=df3["Returned on"].fillna(re)
df5=df4['Delay Days'].fillna(dd)
df6=df5['Fee'].fillna(fe)
print("Fee: Rs.10/day")
print("Here is your Receipt Mr./Ms.",nam)
print(df6)
print("Your pay=", (df6['Fee'].to_string(index=False)), "Rupees")
print("==Thanks for visiting==")
data2=(df2[df2['User']==nam].index.values)
df2=df2.drop(data2)
```



```

        df2.to_csv('Issued.csv',index=False)
        df2=pd.read_csv('Issued.csv')
        q=0
        w=1
elif(c==4):
    print(" ")
    add=input("Enter User Name you want to Delete: ")
    df2=pd.read_csv('Issued.csv')
    df3=df2[df2['User']==add]
    if(df3.empty):
        q=0
        w=1
        print("---This User Not Found---")
    else:
        data=(df2[df2['User']==add].index.values)
        df2=df2.drop(data)
        df2.to_csv('Issued.csv',index=False)
        df2=pd.read_csv('Issued.csv')
        q=0
        w=1
        print("=Succefully Deleted Entry=")
        print(df2)
elif(c==5):
    w=0
    q=1
elif(b==2):
    x=1
    while x==1:
        print("_____")
        print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
        print("1. Admin Account List")
        print("2. Add new Admin")

```

```

print("3. Update Admin Details")
print("4. My Shift Schedule")
print("5. Remove Entry")
print("6. ==BACK==")
c=int(input("Enter your choice: "))
if(c==1):
    print(" ")
    print(df)
    q=0
    x=1
elif(c==2):
    print(" ")
    i=int(input("Enter the no. of Entries"))
    print("Enter the following details")
    for s in range (i):
        print(" ")
        print("Entry", (s+1))
        adn=input("Admin Name: ")
        Pass=input("Create Password: ")
        pn=input("Phoneno.: ")
        ci=input("City: ")
        ag=input("Age: ")
        sh=input("shift: ")
        sal=input("Salary: ")
        df=pd.read_csv('admin_list.csv')
        data={"Admin":[adn], "Password":[Pass], "Phone
no.":[pn], "City":[ci], "Age":[ag], "Shift":[sh], "Salary":[sal]}
        df2=pd.DataFrame(data)
        df4=df.append(df2)
        df4.to_csv('admin_list.csv', index=False)
        df4=pd.read_csv('admin_list.csv')
    print(" ")

```

```

print(df4)
print("-- SUCCESSFULLY ADDED--")
print("  ^^^^^^^^^^^^^^^^^^^^^^^^^")
q=0
x=1
elif(c==3):
    adn=input("Admin name whose detail you want to change")
    df2=pd.read_csv('Admin_list.csv')
    df3=df2[df2['Admin']==adn]
    if(df3.empty):
        q=0
        x=1
        print("--Admin not exists--")
    else:
        l=1
        while l==1:
            print("--WHAT YOU WANT TO CHANGE--")
            print("1. Password")
            print("2. Age")
            print("3. City")
            print("4. Phone No.")
            print("5. Shift")
            print("6. Salary")
            print("7. ==BACK==")
            h=int(input("Enter your choice:"))
            if h==1:
                df2=pd.read_csv('Admin_list.csv')
                pas=input("Enter New Password: ")
                d=(df2[df2['Admin']==adn].index.values)
                df2.loc[d,["Password"]]=pas
                df2.to_csv('Admin_list.csv',index=False)
                df3=df2[df2['Admin']==adn]

```

```

print(df3)
print("==Successfully changed==")
l=1
q=0
x=0
elif h==2:
    df2=pd.read_csv('Admin_list.csv')
    pas=input("Enter New Age: ")
    d=(df2[df2['Admin']==adn].index.values)
    df2.loc[d,["Age"]]=pas
    df2.to_csv('Admin_list.csv',index=False)
    df3=df2[df2['Admin']==adn]
    print(df3)
    print("==Successfully changed==")
    l=1
    q=0
    x=0
elif h==3:
    df2=pd.read_csv('Admin_list.csv')
    pas=input("Enter New City: ")
    d=(df2[df2['Admin']==adn].index.values)
    df2.loc[d,["City"]]=pas
    df2.to_csv('Admin_list.csv',index=False)
    df3=df2[df2['Admin']==adn]
    print(df3)
    print("==Successfully changed==")
    l=1
    q=0
    x=0
elif h==4:
    df2=pd.read_csv('Admin_list.csv')
    pas=input("Enter New Phone no.: ")

```

```

d=(df2[df2['Admin']==adn].index.values)
df2.loc[d,["Phone no."]]=pas
df2.to_csv('Admin_list.csv',index=False)
df3=df2[df2['Admin']==adn]
print(df3)
print("==Successfully changed==")
l=1
q=0
x=0
elif h==5:
    df2=pd.read_csv('Admin_list.csv')
    pas=input("Enter New Shift: ")
    d=(df2[df2['Admin']==adn].index.values)
    df2.loc[d,["Shift"]]=pas
    df2.to_csv('Admin_list.csv',index=False)
    df3=df2[df2['Admin']==adn]
    print(df3)
    print("==Successfully changed==")
    l=1
    q=0
    x=0
elif h==6:
    df2=pd.read_csv('Admin_list.csv')
    pas=input("Enter New Salary: ")
    d=(df2[df2['Admin']==adn].index.values)
    df2.loc[d,["Salary"]]=pas
    df2.to_csv('Admin_list.csv',index=False)
    df3=df2[df2['Admin']==adn]
    print(df3)
    print("==Successfully changed==")
    l=1
    q=0

```

```

        x=0
    elif h==7:
        l=0
        q=0
        x=1
    else:
        print("--Enter the correct choise--")
        l=1
        q=0
        x=0
elif (c==4):
    print(" ")
    print(ad, ",your shift will be from: ",(df1["Shift"].to_string(index=False)))
    q=0
    x=1
elif (c==5):
    if (ad== "Jhanvi"):
        print(" ")
        add=input("Enter Admin you want to Delete: ")
        df2=pd.read_csv('admin_list.csv')
        df3=df2[df2['Admin']==add]
        if(df3.empty):
            q=0
            x=1
            print("---This Admin already not exists---")
        else:
            data=(df2[df2['Admin']==add].index.values)
            df2=df2.drop(data)
            df2.to_csv('admin_list.csv',index=False)
            df2=pd.read_csv('admin_list.csv')
            q=0
            x=1

```

```

        print("-- ", add, " record is successfully deleted. --")
    else:
        print("--Sorry you are not allowed to remove staff details--")
        print("--ONLY HEAD ADMIN 'Jhanvi' is allowed--")
        q=0
        x=1
    elif (c==6):
        x=0
        q=1
elif(b==3):
    y=1
    while y==1:
        print("_____")
        print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
        print("1. User Account List")
        print("2. Add new User")
        print("3. Remove Entry")
        print("4. ==BACK==")
        c=int(input("Enter your choice:"))
        if(c==1):
            df2=pd.read_csv('User_list.csv')
            print(df2)
            q=0
            y=1
        elif(c==2):
            i=int(input("Enter the no. of Entries:"))
            print("Enter the following")
            for s in range (i):
                print("Entry", (s+1))
                u=input("User Name")
                Pass=input("Create Password")
                pn=input("Phoneno.: ")

```

```

ci=input("City: ")
ag=input("Age:")
df=pd.read_csv('User_list.csv')
data={"User":[u],"Password":[Pass], "Phone no.":[pn],"City":[ci],"Age":[ag]}
df2=pd.DataFrame(data)
df4=df.append(df2)
df4.to_csv('User_list.csv',index=False)
df4=pd.read_csv('User_list.csv')
print(df4)
print("--SUCCESSFULLY ADDED--")
q=0
y=1
elif (c==3):
    add=input("Enter User Name you want to Delete: ")
    df2=pd.read_csv('User_list.csv')
    df3=df2[df2['User']==add]
    if(df3.empty):
        q=0
        y=1
        print("User already not exists")
    else:
        data=(df2[df2['User']==add].index.values)
        df2=df2.drop(data)
        df2.to_csv('User_list.csv',index=False)
        df2=pd.read_csv('User_list.csv')
        q=0
        y=1
        print("X= ", add, " record is successfully deleted. =X=")
    elif (c==4):
        y=0
        q=1
elif(b==4):

```



```

k=1
while k==1:
    print("_____")
    print("!!!!!!!!!!!!!!!!!!!!!!!!!!!!")
    print("1. Books List")
    print("2. Add new Book")
    print("3. Reading Rate(Histogram)")
    print("4. Remove Entry")
    print("5. ==BACK==")
    c=int(input("Enter your choice:"))
    if(c==1):
        print(" ")
        df2=pd.read_csv("Book.csv")
        print(df2)
        q=0
        k=1
    elif(c==2):
        print(" ")
        i=int(input("Enter the no. of Entries"))
        print("Enter the following details")
        for s in range (i):
            print(" ")
            print("Entry", (s+1))
            bi=input("Book ID:")
            bn=input("Book Name:")
            au=input("Auther")
            pu=input("Publisher: ")
            g=input("Genre: ")
            ra=input("Rating: ")
            r=input("No. of reads")
            df=pd.read_csv('Book.csv')

```

```

        data={"BookID":[bi],"Book Name":[bn],
"Author":[au],"Publisher":[pu],"Genre":[g],"Rating":[ra], "No. Of Reads": [r]}
        df2=pd.DataFrame(data)
        df4=df.append(df2)
        df4.to_csv('Book.csv',index=False)
        df4=pd.read_csv('Book.csv')
        print(df4)
        print("--SUCCESSFULLY ADDED--")
        q=0
        k=1
elif (c==3):
    gr=pd.read_csv('Book.csv')
    plt.hist(gr['No. Of Reads'])
    plt.title("| No. of Books as per reads |=",fontsize=15)
    plt.xlabel("No.of Reads",fontsize=10)
    plt.ylabel("No. of Books",fontsize=10)
    plt.show()
    q=0
    k=1
elif (c==4):
    print(" ")
    add=input("Enter Book Name you want to Delete: ")
    df2=pd.read_csv('Book.csv')
    df3=df2[df2['Book Name']==add]
    if(df3.empty):
        q=0
        k=1
        print("Book already not exists")
    else:
        data=(df2[df2['Book Name']==add].index.values)
        df2=df2.drop(data)
        df2.to_csv('Book.csv',index=False)

```

```

        df2=pd.read_csv('Book.csv')

        q=0

        k=1

        print("--SUCCESSFULLY DELETED--")

    elif (c==5):

        k=0

        q=1

    elif (b==5):

        q=0

if(a==2):

    q=1

    while (q==1):

        print(" ")

        print("      |_*_*_*_*_*_*_*_*_|")

        print("      |* 1. LOGIN      *|")

        print("      |* 2. REGISTRATION *|")

        print("      |* 3. ==BACK==   *|")

        print("      |_*_*_*_*_*_*_*_*_|")

        df=pd.read_csv("User_list.csv")

        f=int(input("      Enter the choise:"))

        if(f==1):

            print("_____")

            u=input("Enter the User name:")

            pwd=input("Enter the Passward:")

            df1=df[(df['User']==u) & (df['Password']==pwd)]

            if(df1.empty):

                print(":=X= Try Again =X:=")

                print("Please Enter Correct Details")

                q=1

            else:

                s=1

                print(":-:-|*|HELLO ",u,"|*|:-:-")

```

```

while s==1:
    print("|-----|")
    print("|! 1. My Account      !|")
    print("|! 2. Reading Suggestions !|")
    print("|! 3. Search Books    !|")
    print("|! 4. Issue Book      !|")
    print("|! 5. Update MY details !|")
    print("|! 6. ==BACK==        !|")
    print("|-----|")
    b=int(input("Enter your choice: "))
    if (b==1):
        print(" ")
        print("ooo:| WELCOME TO YOUR ACCOUNT ",u,"|:ooo")
        print("      My DETAILS")
        print("      ^^^^^^^^^^^")
        print("Name      : ", df1['User'].to_string(index=False))
        print("Age       : ", df1['Age'].to_string(index=False))
        print("PhoneNo.   : ", df1['Phone no.'].to_string(index=False))
        print("City      : ", df1['City'].to_string(index=False))
        print("Issued History: ", df1['Issued History'].to_string(index=False))
        print("")
        s=1
        q=0
    elif (b==2):
        t=1
        while (t==1):
            print("_____")
            print("| ***** |")
            print("| ---SUGGESTION BOARD--- |")
            print("| 1. Top Rating      |")
            print("| 2. Toppers of Genres |")
            print("| 3. ===BACK===     |")

```

```

print("| ***** |")
p=int(input("Enter your choise: "))
if p==1:
    gr=pd.read_csv("Book.csv")
    gr1=gr.sort_values('Rating', ascending=False)
    plt.bar(gr1['BookID'],gr1['Rating'])
    plt.title("Top Rated Books",fontsize=20)
    plt.xlabel('Book Name',fontsize=10)
    plt.ylabel('Rating',fontsize=10)
    plt.grid()
    plt.show()
    t=1
    q=0
    s=0

```

```

elif p==2:
    gr=pd.read_csv("Book.csv")
    gr=pd.read_csv("Book.csv")
    df2=gr[gr['Genre']=="Novel"]
    df3=gr[gr['Genre']=="Fiction"]
    df4=gr[gr['Genre']=="Suspence"]
    df5=gr[gr['Genre']=="Romance"]
    df6=gr[gr['Genre']=="Horror"]
    df7=gr[gr['Genre']=="Teen-Fiction"]
    plt.plot(df2.BookID, df2['Rating'], 'yellow', label='NOVEL')
    plt.plot(df3.BookID, df3['Rating'], 'red', label='FICTION')
    plt.plot(df4.BookID, df4['Rating'], 'blue', label='SUSPENCE')
    plt.plot(df5.BookID, df5['Rating'], 'pink', label='ROMANCE')
    plt.plot(df6.BookID, df6['Rating'], 'black', label='HORROR')
    plt.plot(df7.BookID, df7['Rating'], 'green', label='TEEN-FICTION')
    plt.legend(loc='upper left')
    plt.title("= | Top Rated Books(Genre Wise) |= \n -Zoom the gener section you are
interested-",fontsize=20)

```

```

plt.xlabel('Book Name',fontsize=10)
plt.ylabel('Ratings',fontsize=10)
plt.grid()
plt.show()

t=1
q=0
s=0
elif p==3:
    t=0
    q=0
    s=1
else:
    print("x-x-x-x-Enter the correct choise-x-x-x-x")
    t=1
    q=0
    s=0
elif (b==3):
    v=1
    while v==1:
        print("|-----|")
        print("|  = SEARCH METHODS =  |")
        print("|  1. By BOOK ID      |")
        print("|  2. By BOOK NAME    |")
        print("|  3. My Genre Books   |")
        print("|  4. ==BACK==        |")
        print("|-----|")
        sm=int(input("Enter your Choise: "))
        if sm==1:
            i=input("Enter the Book ID")
            df2=pd.read_csv('Book.csv')
            df3=pd.read_csv('Issued.csv')
            df4=df2[df2['BookID']== i]

```

```

print(df4)
df5=df3[df3['BookID']==i]
if df5.empty:
    print("--This Book Is Available in Our Library--")
    print("--Get the Book ID and Please go back If you want to Issue This Book--")
    v=1
    q=0
    s=0
else:
    print("--THIS BOOK IS Currently ISSUED--")
    print("It will be available after:", (df5['D_o_Return'].to_string(index=False)))
    v=1
    q=0
    s=0
elif sm==2:
    am=input("Enter the Book Name")
    df2=pd.read_csv('Book.csv')
    df3=pd.read_csv('Issued.csv')
    df4=df2[df2['Book Name']== am]
    print(df4)
    df5=df3[df3['BookID']==i]
    if df5.empty:
        print("--This Book Is Available in Our Library--")
        print("--Get the Book ID and Please go back If you want to Issue This Book--")
        v=1
        q=0
        s=0
    else:
        print("--THIS BOOK IS Currently ISSUED--")
        print("It will be available after:", (df5['D_o_Return'].to_string(index=False)))
        v=1
        q=0

```

```

        s=0
elif sm==3:
    print("|-----| ")
    print("|  AVAILABLE GENRES  |")
    print("|  1. Fiction    |")
    print("|  2. Novel      |")
    print("|  3. Suspence   |")
    print("|  4. Romance    |")
    print("|  5. Horror     |")
    print("|  6. Teen-Fiction |")
    print("|  7. ==Back==   |")
    print("|-----|")
    g=int(input("Enter your choise: "))
    mg=pd.read_csv('Book.csv')
    if g==1:
        ng=mg[mg['Genre']== "Fiction"]
        print(ng)
        v=1
        q=0
        s=0
    elif g==2:
        ng=mg[mg['Genre']== "Novel"]
        print(ng)
        v=1
        q=0
        s=0
    elif g==3:
        ng=mg[mg['Genre']== "Suspence"]
        print(ng)
        v=1
        q=0
        s=0

```



```

elif g==4:
    ng=mg[mg['Genre']== "Romance"]
    print(ng)
    v=1
    q=0
    s=0
elif g==5:
    ng=mg[mg['Genre']== "Horror"]
    print(ng)
    v=1
    q=0
    s=0
elif g==6:
    ng=mg[mg['Genre']== "Teen-Fiction"]
    print(ng)
    v=1
    q=0
    s=0
else:
    v=1
    q=0
    s=0
elif sm==4:
    v=0
    q=0
    s=1
else:
    print("--Enter correct choise--")
    v=1
    q=0
    s=0
elif (b==4):

```

```

print(":-::-:-::-:-::-:-::-:-::-")
df2=pd.read_csv('Book.csv')
df3=pd.read_csv('Issued.csv')
na=input("Enter Your Name:")
i=input("Enter the BookID")
df5=df3[df3['BookID']==i]
if df5.empty:
    print("--This Book Is Available in Our Library--")
    di=input("Enter Issue date(MM/DD/YYYY):")
    date_1 = datetime.datetime.strptime(di, "%m/%d/%Y")
    r = date_1 + datetime.timedelta(days=10)
    df3=pd.read_csv('Issued.csv')
    data={"User":[na],"BookID":[i],"D_o_Issue":[di], "D_o_Return":[r]}
    df4=pd.DataFrame(data)
    df5=df3.append(df4)
    df5.to_csv('Issued.csv',index=False)
    df5=pd.read_csv('Issued.csv')
    df6=df5[df5['User']== na]
    print(df6)
    print("---SUCCESSFULLY ISSUED---")
    print("Enjoy your read and return the book with in 10 days of issue date i.e.: ",
df6['D_o_Return'].to_string(index=False))
    q=0
    s=1
else:
    print("--THIS is already Issued--")
    print("It will be availabel after: ", (df5['D_o_Return'].to_string(index=False)))
    q=0
    s=1
elif b==5:
    l=1
    while l==1:

```

```

print("| ===== |")
print("| --WHAT YOU WANT TO CHANGE-- |")
print("|    1. Password    |")
print("|    2. Age          |")
print("|    3. City          |")
print("|    4. Phone No.     |")
print("|    5. ==BACK==     |")
print("| ===== |")
c=int(input("Enter your choice:"))
if c==1:
    df2=pd.read_csv('User_list.csv')
    pas=input("Enter New Password: ")
    d=(df2[df2['User']==u].index.values)
    df2.loc[d,["Password"]]=pas
    df2.to_csv('User_list.csv',index=False)
    df3=df2[df2['User']== u]
    print(df3)
    print("==Successfully changed==")
    l=1
    q=0
    s=0
elif c==2:
    df2=pd.read_csv('User_list.csv')
    pas=input("Enter Current new Age: ")
    d=(df2[df2['User']==u].index.values)
    df2.loc[d,["Age"]]=pas
    df2.to_csv('User_list.csv',index=False)
    df3=df2[df2['User']== u]
    print(df3)
    print("==Successfully changed==")
    l=1
    q=0

```

```

s=0
elif c==3:
    df2=pd.read_csv('User_list.csv')
    pas=input("Enter New City: ")
    d=(df2[df2['User']==u].index.values)
    df2.loc[d,["City"]]=pas
    df2.to_csv('User_list.csv',index=False)
    df3=df2[df2['User']== u]
    print(df3)
    print("==Successfully changed==")
    l=1
    q=0
    s=0
elif c==4:
    df2=pd.read_csv('User_list.csv')
    pas=input("Enter New Phone no: ")
    d=(df2[df2['User']==u].index.values)
    df2.loc[d,["Phoneno."]]=pas
    df2.to_csv('User_list.csv',index=False)
    df3=df2[df2['User']== u]
    print(df3)
    print("==Successfully changed==")
    l=1
    q=0
    s=0
elif c==5:
    l=0
    q=0
    s=1
else:
    print("x-x-x-Enter the correct choise-x-x-x-x")
    l=1

```

```

        q=0
        s=0
    elif(b==6):
        q=1
        s=0
    else:
        print("x-x-x-x-Enter the correct choise-x-x-x-x")
        q=1
        s=0
elif (f==2):
    print(" ")
    print("!=====!")
    print("!-Please Enter the following details carefully-!")
    print("!=====!")
    u=input("    User Name: ")
    Pass=input("    Create Password: ")
    pn=input("    Phoneno.: ")
    ci=input("    City: ")
    ag=input("    Age: ")
    df=pd.read_csv('User_list.csv')
    data={"User":[u],"Password":[Pass], "Phone no.":[pn],"City":[ci],"Age":[ag]}
    df2=pd.DataFrame(data)
    df4=df.append(df2)
    df4.to_csv('User_list.csv',index=False)
    df4=pd.read_csv('User_list.csv')
    print("---Successfully Registered---")
    print("")
    print("xxxx--WELCOME TO ABYSS READING WORLD--xxxx")
    print("    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^")
    q=1
elif(f==3):
    q=0

```

```
        m=1
    else:
        print("x-x-x-Enter the correct choise-x-x-x-x")
        q=0
        m=1
else:
    print("x-x-x-Enter the correct choise-x-x-x-x")
        m=1
```

OUTPUT

◆ Admin

➤ LOGIN:-

```
===== RESTART: C:\Users\admin\Desktop\Libreay\Lib_cod.py =====  
|*****|  
=:-----:{|=WELCOME TO ABYSS LIBRARY|=}:-----:=  
|*****|  
  
|::::::::::::|  
|:   1.ADMIN   :|  
|:   2.USER    :|  
|::::::::::::|  
Enter your choice:1  
  
_____  
Enter the ADMIN name:Jhanvi  
Enter the Passward:jh@n  
-----||WELCOME Jhanvi ||-----  
  
_____  
<<<<<<<<<<<<<<<<<<<<<<<<<<<<  
1.Book Issue Management  
2.Admins Management  
3.Users Management  
4.Books Management  
5.===BACK===  
Enter your choice:
```

➤ **Book Issue Management:-**

- Issued Book List-(Admin can see the whole list of issued Books)

```

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1. Book Issued list
2. Issue Book
3. Availablity of Book
4. Remove Entry
5. ==BACK==
Enter your choice: 1

```

| | User | BookID | D_o_Issue | D_o_Return |
|----|--------|--------|------------|---------------------|
| 0 | Anna | BK33 | 12/29/2020 | 1/8/2021 0:00 |
| 1 | Deepak | BK32 | 12/27/2020 | 1/6/2021 0:00 |
| 2 | Ellina | BK22 | 12/27/2020 | 1/6/2021 0:00 |
| 3 | Farah | BK12 | 12/29/2020 | 1/8/2021 0:00 |
| 4 | Harman | BK11 | 12/22/2020 | 1/1/2021 0:00 |
| 5 | Veeta | BK13 | 12/22/2020 | 1/1/2021 0:00 |
| 6 | Dhruv | BK1 | 12/22/2020 | 1/1/2021 0:00 |
| 7 | Shreya | BK4 | 12/24/2020 | 1/3/2021 0:00 |
| 8 | Rajat | BK7 | 1/1/2021 | 2021-01-11 00:00:00 |
| 9 | Sara | BK2 | 12/29/2020 | 2021-01-08 00:00:00 |
| 10 | Gaurav | BK5 | 12/30/2020 | 2021-01-09 00:00:00 |
| 11 | Jhanvi | BK34 | 12/31/2020 | 2021-01-10 00:00:00 |
| 12 | Harish | BK8 | 12/31/2020 | 2021-01-10 00:00:00 |

- Availability of Book-(Admin can check a specific Book is available in Library or issued.)

```

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1. Book Issued list
2. Issue Book
3. Availablity of Book
4. Remove Entry
5. ==BACK==
Enter your choice: 3

Enter the BookID(Example- BK1,BK2..): BK4

--SORRY THIS BOOK IS Currently ISSUED--
~~~~~
It will be available after:  1/3/2021 0:00

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1. Book Issued list
2. Issue Book
3. Availablity of Book
4. Remove Entry
5. ==BACK==
Enter your choice: 3

Enter the BookID(Example- BK1,BK2..): BK6
---THIS BOOK IS AVAILABLE---

```

- Issue Book- (Admin can Issue Books for costumers and tell its available or not)


```

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1. Book Issued list
2. Issue Book
3. Availablity of Book
4. Remove Entry
5. ==BACK==
Enter your choice: 2

Enter the no. of entries:2

Entry 1
Enter User Name:Gagan
Enter BookID(One Book at a time):BK2
--This Book is NOT available--
It will be available after: 2021-01-08 00:00:00

Entry 2
Enter User Name:Aisha
Enter BookID(One Book at a time):BK3
Enter Issue date(MM/DD/YYYY):12/30/2020
---SUCCESSFULLY ISSUED---
~~~~~

```

| | User | BookID | D_o_Issue | D_o_Return |
|----|--------|--------|------------|---------------------|
| 0 | Anna | BK33 | 12/29/2020 | 1/8/2021 0:00 |
| 1 | Deepak | BK32 | 12/27/2020 | 1/6/2021 0:00 |
| 2 | Ellina | BK22 | 12/27/2020 | 1/6/2021 0:00 |
| 3 | Farah | BK12 | 12/29/2020 | 1/8/2021 0:00 |
| 4 | Harman | BK11 | 12/22/2020 | 1/1/2021 0:00 |
| 5 | Veeta | BK13 | 12/22/2020 | 1/1/2021 0:00 |
| 6 | Dhruv | BK1 | 12/22/2020 | 1/1/2021 0:00 |
| 7 | Shreya | BK4 | 12/24/2020 | 1/3/2021 0:00 |
| 8 | Rajat | BK7 | 1/1/2021 | 2021-01-11 00:00:00 |
| 9 | Sara | BK2 | 12/29/2020 | 2021-01-08 00:00:00 |
| 10 | Gaurav | BK5 | 12/30/2020 | 2021-01-09 00:00:00 |
| 11 | Jhanvi | BK34 | 12/31/2020 | 2021-01-10 00:00:00 |
| 12 | Harish | BK8 | 12/31/2020 | 2021-01-10 00:00:00 |
| 13 | Aisha | BK3 | 12/30/2020 | 2021-01-09 00:00:00 |

- Remove Entry-(Admin can remove record of costumer who issued book, after he/she return)

```

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1. Book Issued list
2. Issue Book
3. Availablity of Book
4. Remove Entry
5. ==BACK==
Enter your choice: 4

Enter User Name you want to Delete: Anna
=Succesfully Deleted Entry=

      User BookID   D_o_Issue      D_o_Return
0    Deepak   BK32   12/27/2020    1/6/2021 0:00
1    Ellina   BK22   12/27/2020    1/6/2021 0:00
2    Farah    BK12   12/29/2020    1/8/2021 0:00
3    Harman   BK11   12/22/2020    1/1/2021 0:00
4    Veeta    BK13   12/22/2020    1/1/2021 0:00
5    Dhruv    BK1    12/22/2020    1/1/2021 0:00
6    Shreya   BK4    12/24/2020    1/3/2021 0:00
7    Rajat    BK7     1/1/2021  2021-01-11 00:00:00
8    Sara     BK2    12/29/2020  2021-01-08 00:00:00
9    Gaurav   BK5    12/30/2020  2021-01-09 00:00:00
10   Jhanvi    BK34   12/31/2020  2021-01-10 00:00:00
11   Harish    BK8    12/31/2020  2021-01-10 00:00:00

```

➤ Admin Management

- Amin Account List- (Admin can see the other staff members details)

```

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1. Admin Account List
2. Add new Admin
3. Update Admin Details
4. My Shift Schedule
5. Remove Entry
6. ==BACK==
Enter your choice: 1

      Admin   Phone no.   Password      City   Age   Shift   Salary
0    Allina   48328383    Hel30        Jaipur  23   7a.m.-10p.m. 10000
1    Kelash   543267893   kelu#4       Tonk   25   12p.m.-2p.m. 10000
2    Akahi    647532198   Akashi45     Raipur  26   1p.m.-3p.m. 10000
3    Girish   213456789   giri30       Jaipur  28   4p.m.-6p.m. 10000
4    Mohit    765342189   63m#h       Jaipur  29   6a.m.-9p.m. 12000
5    Lina     321456789   Linal23     Churu   30   2p.m.-5p.m. 12000
6    Himashi  987653421   hima#!3     Jaipur  25   6p.m.-8p.m. 10000
7    Gagan    54321879   234ga       Tonk   27   8p.m.-10p.m. 10000
8    heera    987654321   hir2        Ganganagar 24   2p.m.-3p.m. 10000
9    jina     8765432129 jawbreak     Jaipur  22   9a.m.-10p.m. 10000
10   Jeera    7654321298 jemi        Kanpur  24   3p.m.-6p.m. 10000
11   Reena    978563421   ri@73       Tonk   32   5p.m.-7p.m. 10000
12   Kiara    576438921   fre43       Jaipur  31   3p.m.-4p.m. 12000
13   Jane     56743993   jae         Jaipur  28   7a.m.-9a.m. 10000
14   Kai      9888765433 k@3i        Nivai   25   9p.m.-12p.m. 10000
15   Jimin    9687453234 chimchim     Tonk   25   12p.m.-2p.m. 10000
16   Kamla    9887465221 k@m10       Fathehpur 34   2p.m.-5p.m. 12000
17   Jeena    9878767654 j33         Dosa    23   4p.m.-5p.m. 2100
18   Jhanvi   9413349552 jh@n       Jaipur  27   10a.m.-8p.m. 14000

```

- Add new-(Admin can add new admin/staff member)

```

Enter your choice: 2

Enter the no. of Entries1
Enter the following details

Entry 1
Admin Name: Giresh
Create Password: g!r!
Phoneno.: 9876691223
City: Jaipur
Age: 28
Shift: 8a.m.-11a.m.
Salary: 12000

Admin Phone no. Password City Age Shift Salary
0 Allina 48328383 Hel30 Jaipur 23 7a.m.-10p.m. 10000
1 Kelash 543267893 kelu#4 Tonk 25 12p.m.-2p.m. 10000
2 Akahi 647532198 Akashi45 Raipur 26 1p.m.-3p.m. 10000
3 Girish 213456789 giri30 Jaipur 28 4p.m.-6p.m. 10000
4 Mohit 765342189 63m#h Jaipur 29 6a.m.-9p.m. 12000
5 Lina 321456789 Linal23 Churu 30 2p.m.-5p.m. 12000
6 Himashi 987653421 hima%!3 Jaipur 25 6p.m.-8p.m. 10000
7 Gagan 54321879 234ga Tonk 27 8p.m.-10p.m. 10000
8 heera 987654321 hir2 Ganganagar 24 2p.m.-3p.m. 10000
9 jina 8765432129 jawbreak Jaipur 22 9a.m.-10p.m. 10000
10 Jeera 7654321298 jemi Kanpur 24 3p.m.-6p.m. 10000
11 Reena 978563421 ri@73 Tonk 32 5p.m.-7p.m. 10000
12 Kiara 576438921 fre43 Jaipur 31 3p.m.-4p.m. 12000
13 Jane 56743993 jae Jaipur 28 7a.m.-9a.m. 10000
14 Kai 9888765433 k@3i Nivai 25 9p.m.-12p.m. 10000
15 Jimin 9687453234 chimchim Tonk 25 12p.m.-2p.m. 10000
16 Kamla 9887465221 k@ml0 Fathehpur 34 2p.m.-5p.m. 12000
17 Jeena 9878767654 j33 Dosa 23 4p.m.-5p.m. 2100
18 Jhanvi 9413349552 jh@n Jaipur 27 10a.m.-8p.m. 14000
19 Giresh 9876691223 g!r! Jaipur 28 8a.m.-11a.m. 12000
-- SUCCESSFULLY ADDED--

```

- My Shift-(Admin can check his/her shift scheduled.)

```

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1. Admin Account List
2. Add new Admin
3. Update Admin Details
4. My Shift Schedule
5. Remove Entry
6. ==BACK==
Enter your choice: 4

Jhanvi ,your shift will be from: 10a.m.-8p.m.

```

- Update details-(Admin can update/modify details of other users as well as his/her own.)

```

6. ==BACK==
Enter your choice: 3
Admin name whose detail you want to changeKamla
--WHAT YOU WANT TO CHANGE--
1. Password
2. Age
3. City
4. Phone No.
5. Shift
6. Salary
7. ==BACK==
Enter your choice:4
Enter New Phone no.: 9887633456
Admin    Phone no. Password      City Age      Shift Salary
16 Kamla  9887633456    k@ml0  Fathehpur  34  2p.m.-5p.m.  12000
==Successfully changed==

```

- Remove Entry-(Delete other admins accounts.)
[When head admin login]

```

5. Remove Entry
6. ==BACK==
Enter your choice: 5

Enter Admin you want to Delete: Kamla
-- Kamla record is successfully deleted. --

```

[When admin login]

```

5. Remove Entry
6. ==BACK==
Enter your choice: 5
--Sorry you are not allowed to remove staff details--
--ONLY HEAD ADMIN 'Jhanvi' is allowed--

```

➤ User Management

- User Account list-(Admin can view readers details)


```

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1. User Account List
2. Add new User
3. Remove Entry
4. ==BACK==
Enter your choice:1

```

| | User | Phone no. | Password | City | Issued History | Age |
|----|---------|-------------|-----------|------------|-------------------------|-----|
| 0 | Manisha | 987563210 | Mani36 | Jaipur | BK1, BK2, BK7, BK9, BK3 | 33 |
| 1 | Akhil | 988657342 | anki | Churu | BK2, BK6 | 22 |
| 2 | Ramesh | 955678432 | ramu#95 | Tonk | BK10 | 32 |
| 3 | Mira | 658749320 | mulaun\$2 | Jaipur | BK6, BK10, BK6, BK12 | 22 |
| 4 | Kamla | 8876453324 | Jl9a | Delhi | BK5, BK8, BK1 | 29 |
| 5 | Babu | 9876576587 | b@b4 | Jaipur | 3, BK7, BK19 | 23 |
| 6 | Farah | 9876875564 | rije2 | Delhi | BK13, BK5 | 24 |
| 7 | Anshi | 8893457766 | a@ns! | Tonk | BK6, BK9, BK7 | 25 |
| 8 | Rinna | 5566778444 | r!e@ | Tonk | BK1 | 28 |
| 9 | Sahil | 9877066954 | s@hil | Ahemdabad | BK10, BK8 | 22 |
| 10 | Sarah | 7658760987 | s@rr# | Jaipur | BK2, BK6, BK21, BK23 | 19 |
| 11 | Kamal | 9988776645 | K@m | Ganganagar | BK5, BK9 | 19 |
| 12 | Koyal | 98876584334 | k0y | Delhi | BK5, BK10 | 26 |
| 13 | Jhanvi | 9857633495 | jh@n | Jaipur | BK9 | 22 |

- Add new user-(Admin can add new customer account)

```

2. Add new User
3. Remove Entry
4. ==BACK==
Enter your choice:2
Enter the no. of Entries:1
Enter the following
Entry 1
User NameRajat
Create Passwordr@gt
Phoneno.: 7856630443
City: Tonk
Age:34

```

| | User | Phone no. | Password | City | Issued History | Age |
|----|---------|-------------|-----------|------------|-------------------------|-----|
| 0 | Manisha | 987563210 | Mani36 | Jaipur | BK1, BK2, BK7, BK9, BK3 | 33 |
| 1 | Akhil | 988657342 | anki | Churu | BK2, BK6 | 22 |
| 2 | Ramesh | 955678432 | ramu#95 | Tonk | BK10 | 32 |
| 3 | Mira | 658749320 | mulaun\$2 | Jaipur | BK6, BK10, BK6, BK12 | 22 |
| 4 | Kamla | 8876453324 | Jl9a | Delhi | BK5, BK8, BK1 | 29 |
| 5 | Babu | 9876576587 | b@b4 | Jaipur | 3, BK7, BK19 | 23 |
| 6 | Farah | 9876875564 | rije2 | Delhi | BK13, BK5 | 24 |
| 7 | Anshi | 8893457766 | a@ns! | Tonk | BK6, BK9, BK7 | 25 |
| 8 | Rinna | 5566778444 | r!e@ | Tonk | BK1 | 28 |
| 9 | Sahil | 9877066954 | s@hil | Ahemdabad | BK10, BK8 | 22 |
| 10 | Sarah | 7658760987 | s@rr# | Jaipur | BK2, BK6, BK21, BK23 | 19 |
| 11 | Kamal | 9988776645 | K@m | Ganganagar | BK5, BK9 | 19 |
| 12 | Koyal | 98876584334 | k0y | Delhi | BK5, BK10 | 26 |
| 13 | Jhanvi | 9857633495 | jh@n | Jaipur | BK9 | 22 |
| 14 | Rajat | 7856630443 | r@gt | Tonk | NaN | 34 |

```

--SUCCESSFULLY ADDED--

```

- Remove Entry-(Admin can remove the customer account)

```

1. User Account List
2. Add new User
3. Remove Entry
4. ==BACK==
Enter your choice:3
Enter User Name you want to Delete: Koyal
=X= Koyal record is successfully deleted. =X=

```

➤ Book Management

- Book list-(Admin can view their Books stock)

```

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
1. Books List
2. Add new Book
3. Reading Rate(Histogram)
4. Remove Entry
5. ==BACK==
Enter your choice:1

```

| | BookID | Book Name | ... Rating | No. Of Reads |
|----|--------|-------------------------------------|------------|--------------|
| 0 | BK1 | The Time Machine | ... 6.7 | 148 |
| 1 | BK3 | The Handmaid's Tale | ... 7.8 | 234 |
| 2 | BK3 | Brave New World | ... 4.6 | 293 |
| 3 | BK4 | The Hobbit | ... 2.8 | 154 |
| 4 | BK5 | Animal Farm | ... 8.0 | 234 |
| 5 | BK6 | To Kill a Mockingbird | ... 9.7 | 193 |
| 6 | BK7 | The Killing Woods | ... 7.4 | 233 |
| 7 | BK8 | Dracula | ... 5.8 | 190 |
| 8 | BK9 | House of Leaves | ... 8.7 | 293 |
| 9 | BK10 | The Haunting of Hill House | ... 9.0 | 154 |
| 10 | BK11 | The History of Tom Jones | ... 5.7 | 200 |
| 11 | BK12 | THE POWER OF YOUR SUBCONSCIOUS MIND | ... 9.1 | 232 |
| 12 | BK13 | Madame Bovary | ... 6.7 | 112 |
| 13 | BK14 | Frankenstein | ... 4.1 | 12 |
| 14 | BK15 | Pride and Prejudice | ... 7.8 | 200 |
| 15 | BK16 | Jane Eyre | ... 4.4 | 122 |
| 16 | BK17 | Outlander | ... 9.3 | 65 |
| 17 | BK18 | The Duke and I | ... 9.2 | 192 |
| 18 | BK19 | White and Royal Blue | ... 9.5 | 222 |
| 19 | BK20 | The Woman Who Loved Me | ... 8.6 | 148 |

- Add new Book-(Admin can add new book in stock)

```

Enter your choice:2

Enter the no. of Entries1
Enter the following details

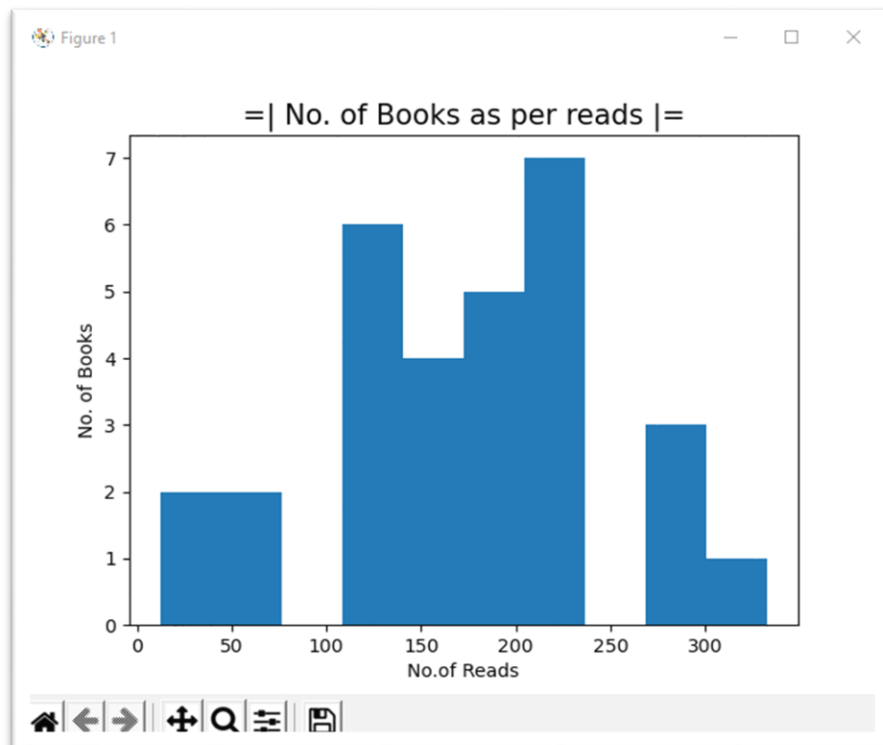
Entry 1
Book ID:BK10
Book Name:The Lord of the Rings
AuthorJ. R. R. Tolkien
Publisher: R. Tolkien
Genre: Novel
Rating: 7.4
No. of reads243

BookID      Book Name ... Rating No. Of Reads
0    BK9      The Sentinel ...    5.0      111
1    BK5      Madame Bovary ...    6.7      112
2    BK7      Jane Eyre ...    8.3      121
3    BK2      The Red and the Black ...    6.9      122
4    BK6      The World As I See It ...    8.5      133
5    BK1      The History of Tom Jones ...    5.7      200
6    BK8      Sharp Objects ...    7.5      221
7    BK4  THE POWER OF YOUR SUBCONSCIOUS MIND ...    9.1      232
8    BK3      The Killing Woods ...    7.4      233
9    BK6      Animal Farm ...    8.0      234
10   BK10     The Lord of the Rings ...    7.4      243

[11 rows x 7 columns]
--SUCCESSFULLY ADDED--

```

- Reading Rate(Histogram)-(Graph shows the no. of Books having specific reads)



- Remove Entry-(Admin can remove Book details from stock)

```
!!!!!!!!!!!!!!!!!!!!!!
1. Books List
2. Add new Book
3. Reading Rate(Histogram)
4. Remove Entry
5. ==BACK==
Enter your choice:4

Enter Book Name you want to Delete: Jane Eyre
--SUCCESSFULLY DELETED--
```

❖ User

➤ Login

```
===== KESIAKI: C:\Users\admin\Desktop\Library\Lib_cod.py =====  
|*****|  
=:-----:{=|WELCOME TO ABYSS LIBRARY|=}:-----:=  
|*****|  
  
|:~::~::~::~||  
|:   1.ADMIN   :|  
|:   2.USER    :|  
|:~::~::~::~||  
Enter your choice:2  
  
|-*-~-*-~-*-~-*-~-|  
|*   1. LOGIN      *|  
|*   2. REGISTRATION *|  
|*   3. ==BACK==   *|  
|-*-~-*-~-*-~-*-~-|  
Enter the choise:1  
  
Enter the User name:Akhil  
Enter the Passward:anki  
:-::-|*|HELLO Akhil |*|:-::  
|-----|  
|!  1. My Account        !|  
|!  2. Reading Suggestions !|  
|!  3. Search Books       !|  
|!  4. Issue Book         !|  
|!  5. Update MY details  !|  
|!  6. ==BACK==          !|  
|-----|  
Enter vour choice: 1
```


- My Account-(User can view his/her details)

```

|!  6. ==BACK==          !|
|-----|
Enter your choice: 1

ooo:| WELCOME TO YOUR ACCOUNT  Akhil |:ooo
      My DETAILS
      ^^^^^^^^^^
Name       :   Akhil
Age        :    22
PhoneNo.   :   988657342
City       :    Churu
Issued History:  BK2, BK6

```

- Reading Suggestions-(Provide graph to compare books)

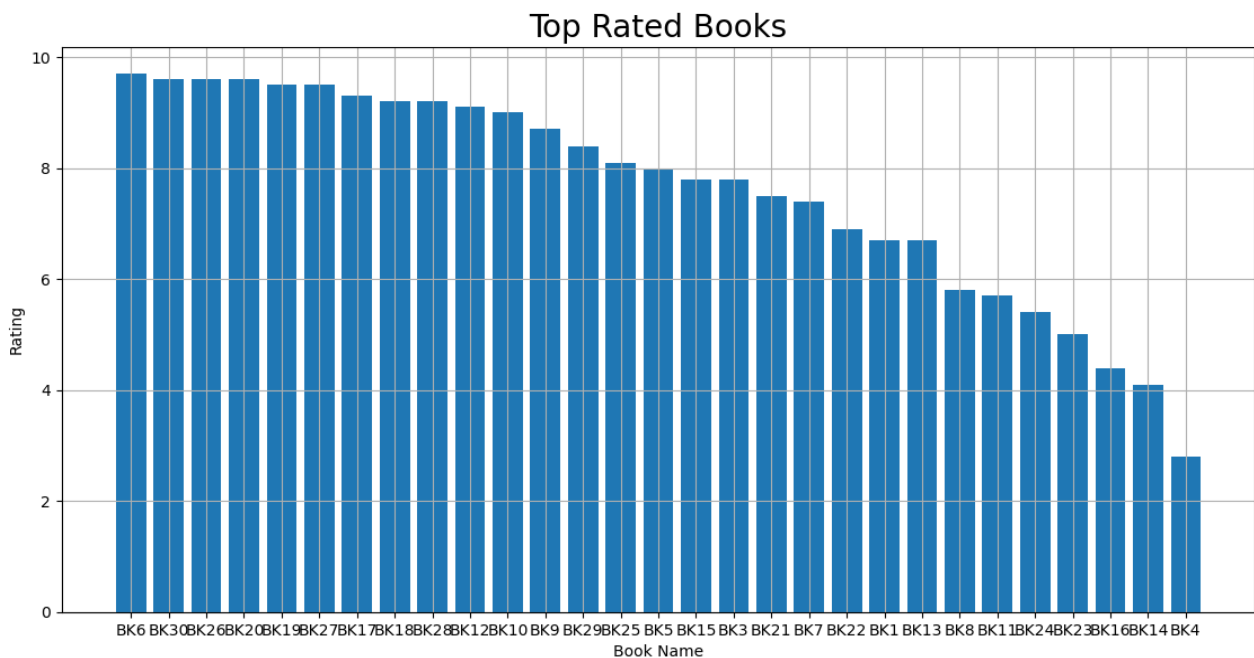
```

|!  6. ==BACK==          !|
|-----|
Enter your choice: 2

|*****|
| ---SUGGESTION BOARD--- |
|   1. Top Rating         |
|   2. Toppers of Genres  |
|   3. ===BACK===        |
|*****|
Enter your choice:

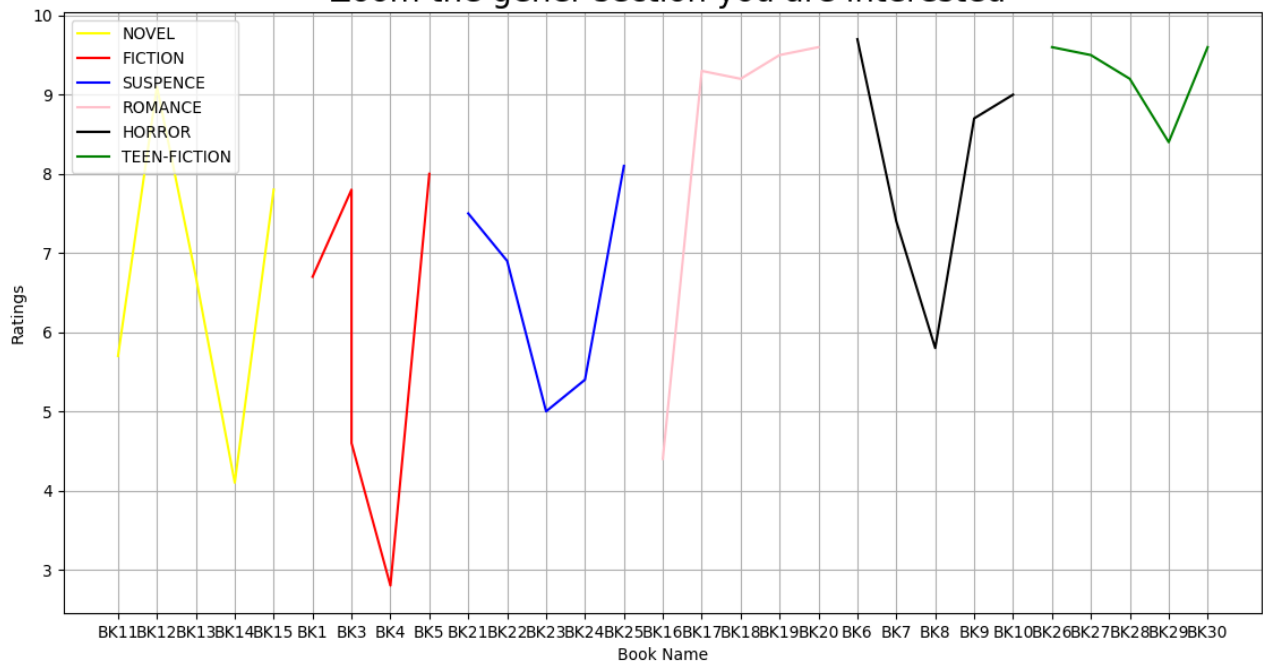
```

[Top Rating(Bar Chart)]



[Toppers of Genre(Line Chart)]

=|Top Rated Books(Genre Wise)|=
-Zoom the gener section you are interested-



- Search Books-(User can search books they want and check their availability)

```

Enter your choice: 3
-----|
| = SEARCH METHODS = |
| 1. By BOOK ID      |
| 2. By BOOK NAME    |
| 3. My Genre Books  |
| 4. ==BACK==        |
|-----|
Enter your Choise: 1
Enter the Book IDBK2
  BookID      Book Name      Author ...   Genre Rating No. Of Reads
2   BK2  The Red and the Black Henri Beyle ... Suspence    6.9         122

[1 rows x 7 columns]
--THIS BOOK IS Currently ISSUED--
It will be available after: 2021-01-08 00:00:00
  
```

- Issue Book-(User can Issue Book Online)

ur read and return the book with in 10 days of issue date i.e.: 2021-01-12 00:00:00

- Update My details-(User can update his/her details)

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```

|!  5. Update My details  !|
|!  6. ==BACK==          !|
|-----|
Enter your choice: 5
|=====|
| --WHAT YOU WANT TO CHANGE-- |
|      1. Password            |
|      2. Age                 |
|      3. City                 |
|      4. Phone No.           |
|      5. ==BACK==            |
|=====|
Enter your choice:1
Enter New Password: ank11
   User  Phone no. Password  City Issued History  Age
1  Akhil  988657342    ank11  Churu        BK2, BK6   22
==Successfully changed==

```

➤ Registration

```

      |-*-*-*-*-*-*-*-*-*-*|
      |*  1. LOGIN           *|
      |*  2. REGISTRATION   *|
      |*  3. ==BACK==       *|
      |-*-*-*-*-*-*-*-*-*-*|
      Enter the choise:2

=====
!-Please Enter the following details carefully-!
=====
      User Name: Harshi
      Create Password: h@rh!
      Phoneno.: 7864556533
      City: Delhi
      Age: 17
      ---Successfully Registered---

xxxx--WELCOME TO ABYSS READING WORLD--xxxx
      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

      |-*-*-*-*-*-*-*-*-*-*|
      |*  1. LOGIN           *|
      |*  2. REGISTRATION   *|
      |*  3. ==BACK==       *|
      |-*-*-*-*-*-*-*-*-*-*|
      Enter the choise:|

```

CONCLUSION

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The project entitled "Abyss Library" was completed successfully. The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application for give hand to staff of Library to manage their service for readers offline like issuing books, editing etc. Whereas readers have an interactive program to fulfil their needs regarding to their interest in reading Books from this Library.

This project helps us in gaining valuable information and practical knowledge on python language, data visualization using matplotlib and CSV. There is a scope for further development in our project to great extent. A number of features can be added in our system in future like an activity with internet which will make the details entry system convenient or providing the system of having multiple bank account connected with the profile these features could have been implemented unless the time did not limit us.

Bibliography

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- Website:- > www.stackoverflow.org
> www.geeksforgeeks.com